

Revised
7/13/14
[Signature]

<p>Sheet reference number: 1 of 2</p>	<p>VERIFY SCALE BASE IS CASE SUCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY</p>	<p>RADIOLOGICAL REMEDIATION AND SUPPORT PARCEL D-1, PHASE II HUNTERS POINT NAVAL SHIPYARD SAN FRANCISCO, CALIFORNIA</p>	<p>AS-BUILT PLANS DECEMBER 2013</p>	<p>TRENCH EXCAVATION LAYOUT PLAN</p>	<p>TSI Gibane 2730 Shadelands Drive Walnut Creek, CA. 94598</p>
---	--	--	---	---	--

CONTRACT NO / TO NO: N62473-10-D-0808	PROJECT TITLE / LOCATION: Rad Remediation D-1, Phase II / HPNS	ITSI GILBANE PROJECT NO: 07204.0004
Survey No.: 07204.0004-1001-INF	Date: 7/29/2014	Location: HPNS
Chris Robbins	<i>Christopher J Robbins</i>	Ed Palser
Tech Printed Name	Signature	RSO Printed Name
		<i>[Signature]</i>
Signature		

Instrument(s)											
Model	Serial	Cal Due Date	Probe Model	Probe Serial	Cal Due Date	BKG α	BKG β	BKG γ	BKG μr/Hr	Eff. α	Eff. β
19	36519	12/26/2014	N/A						5.1	N/A	→
N/A											→
N/A											→

Survey Description / Map /Photo

Survey Unit

I

Trench #:

04-PDT-009

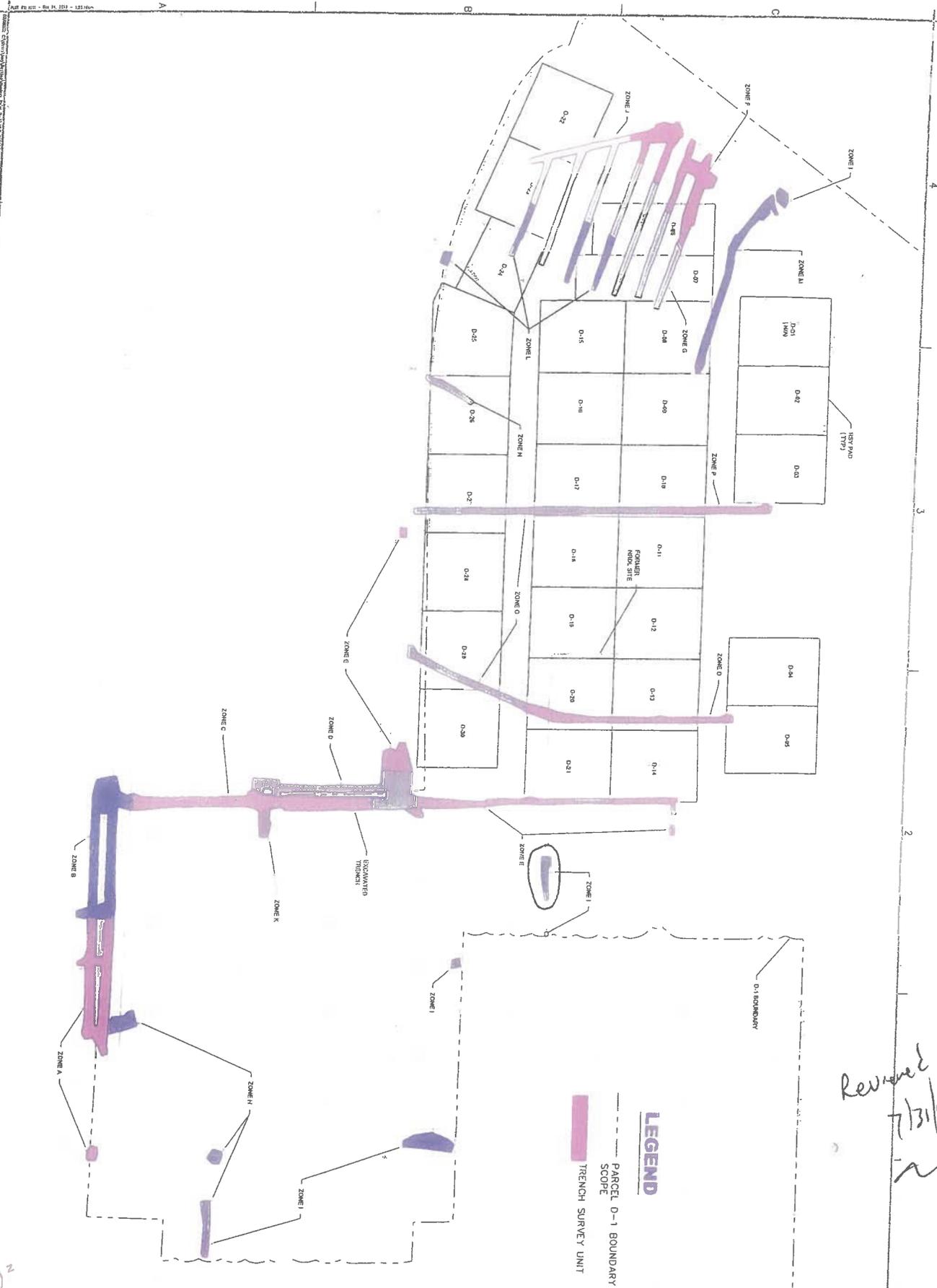
Soil Survey Units

D0022	N/A				N/A
N/A					N/A

(D0001 to D0042)

From the Bottom of Trench									
Soil Compaction Lift From	0	ft to	1		5	6	5	5	
Soil Compaction Lift From	1	ft to	2		6	6	5	6	
Soil Compaction Lift From	2	ft to	3		N/A	N/A	N/A	N/A	
Soil Compaction Lift From	3	ft to	4						
Soil Compaction Lift From	4	ft to	5						
Soil Compaction Lift From	5	ft to	6						
Soil Compaction Lift From	6	ft to	7						
Soil Compaction Lift From	7	ft to	8						
Soil Compaction Lift From	8	ft to	9						
Soil Compaction Lift From	9	ft to	10						
Soil Compaction Lift From	10	ft to	11		↓	↓	↓	↓	

Comments: Informational Survey During Backfill Operation. Dose rates taken at 1 meter above surface to support RESRAD model. Model 19 BKGD from taken from instrument set up sheet.



LEGEND
 --- PARCEL D-1 BOUNDARY
 --- SCOPE
 TRENCH SURVEY UNIT

*Revised
 7/31/14*

Sheet reference number:
 1 of 2

RADIOLOGICAL REMEDIATION AND SUPPORT
 PARCEL D-1, PHASE II
 HUNTERS POINT NAVAL SHIPYARD
 SAN FRANCISCO, CALIFORNIA

AS-BUILT PLANS
 DECEMBER 2013

TRENCH EXCAVATION
 LAYOUT PLAN

TSI Gilbane
 2730 Shadelands Drive
 Walnut Creek, CA, 94598

07204.0004-1001 - Inf

4 of 12

CONTRACT NO / TO NO: N62473-10-D-0808	PROJECT TITLE / LOCATION: Rad Remediation D-1, Phase II / HPNS	ITSI GILBANE PROJECT NO: 07204.0004
Survey No.: 07204.0004-1001-INF	Date: 7/24/2014	Location: HPNS
Chris Robbins	<i>Christopher J Robbins</i>	Ed Palser
Tech Printed Name	Signature	RSO Printed Name
		Signature

Instrument(s)

Model	Serial	Cal Due Date	Probe Model	Probe Serial	Cal Due Date	BKG α	BKG β	BKG γ	BKG μr/Hr	Eff. α	Eff. β
19	286213	7/27/2014	N/A						5.4	N/A	
N/A											
N/A											

Survey Description / Map /Photo

Survey Unit: I

Trench #: 04-PDT-009

Soil Survey Units

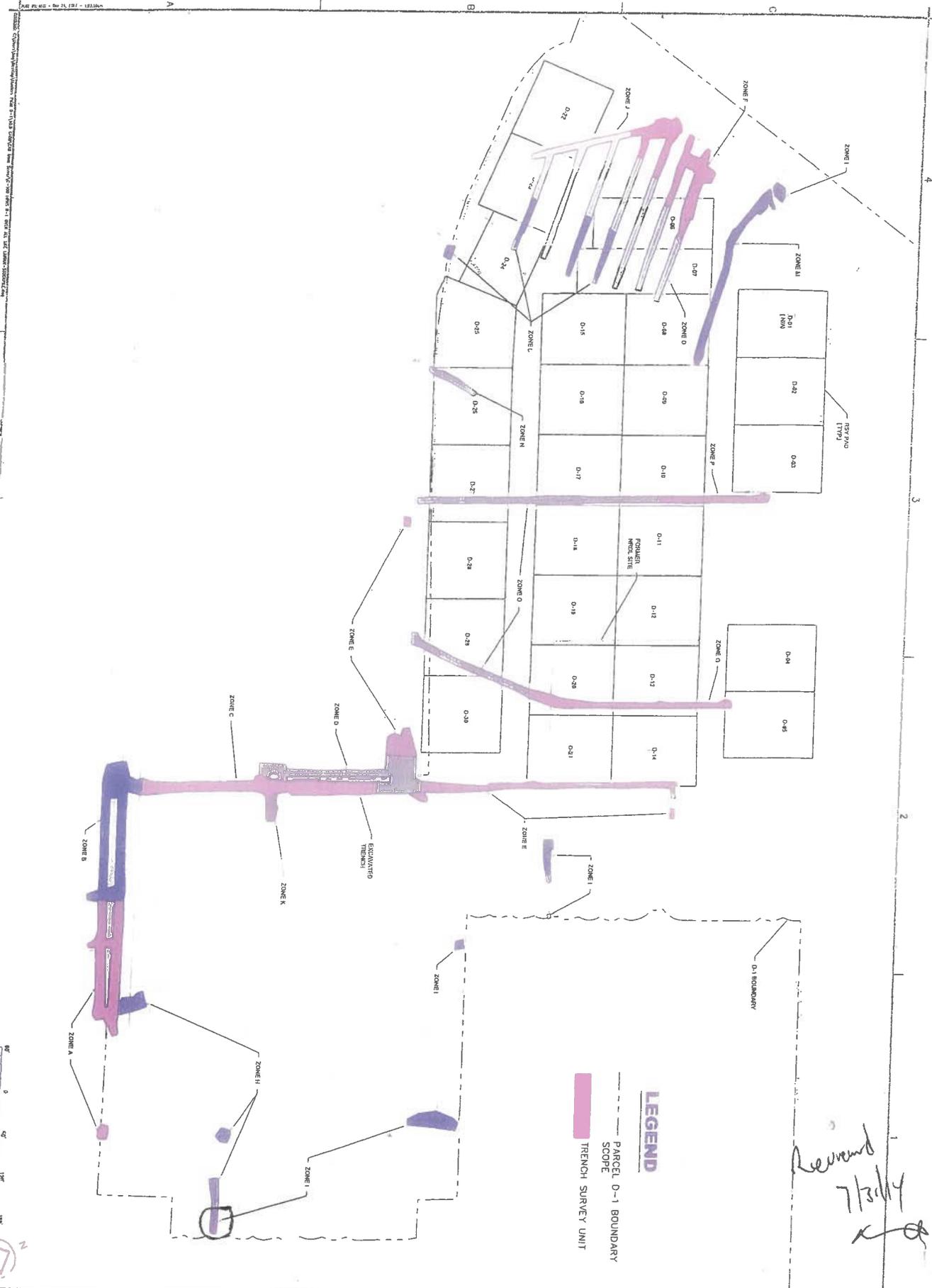
D0022	N/A				N/A
N/A					N/A

(D0001 to D0042)

From the Bottom of Trench

			μR/Hr	μR/Hr	μR/Hr	μR/Hr
Soil Compaction Lift From	0	ft to	1	6	6	5
Soil Compaction Lift From	1	ft to	2	5	6	7
Soil Compaction Lift From	2	ft to	3	N/A	N/A	N/A
Soil Compaction Lift From	3	ft to	4			
Soil Compaction Lift From	4	ft to	5			
Soil Compaction Lift From	5	ft to	6			
Soil Compaction Lift From	6	ft to	7			
Soil Compaction Lift From	7	ft to	8			
Soil Compaction Lift From	8	ft to	9			
Soil Compaction Lift From	9	ft to	10			
Soil Compaction Lift From	10	ft to	11	↓	↓	↓

Comments: Informational Survey During Backfill Operation. Dose rates taken at 1 meter above surface to support RESRAD model. Model 19 BKGD from taken from instrument set up sheet.



Sheet reference number:
1 of 2

RADIOLOGICAL REMEDIATION AND SUPPORT
PARCEL D-1, PHASE II
HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

AS-BUILT PLANS
DECEMBER 2013

TRENCH EXCAVATION
LAYOUT PLAN



CONTRACT NO / TO NO: N62473-10-D-0808	PROJECT TITLE / LOCATION: Rad Remediation D-1, Phase II / HPNS	ITSI GILBANE PROJECT NO: 07204.0004
Survey No.: 07204.0004-1001-INF	Date: 7/24/2014	Location: HPNS
Chris Robbins	<i>Christopher J Robbins</i>	Ed Palser
Tech Printed Name	Signature	RSO Printed Name
Survey Type: Information		

Instrument(s)											
Model	Serial	Cal Due Date	Probe Model	Probe Serial	Cal Due Date	BKG α	BKG β	BKG γ	BKG μr/Hr	Eff. α	Eff. β
19	286213	7/27/2014	N/A						5.4	N/A	
N/A											
N/A											

Survey Description / Map /Photo

Survey Unit I

Trench #: 04-PDT-009

Soil Survey Units

D0022	N/A				
N/A					

(D0001 to D0042)

From the Bottom of Trench				μR/Hr	μR/Hr
Soil Compaction Lift From	0	ft to	1	6	6
Soil Compaction Lift From	1	ft to	2	5	6
Soil Compaction Lift From	2	ft to	3	N/A	N/A
Soil Compaction Lift From	3	ft to	4		
Soil Compaction Lift From	4	ft to	5		
Soil Compaction Lift From	5	ft to	6		
Soil Compaction Lift From	6	ft to	7		
Soil Compaction Lift From	7	ft to	8		
Soil Compaction Lift From	8	ft to	9		
Soil Compaction Lift From	9	ft to	10		
Soil Compaction Lift From	10	ft to	11	↓	↓

Comments: Informational Survey During Backfill Operation. Dose rates taken at 1 meter above surface to support RESRAD model. Model 19 BKGD from taken from instrument set up sheet.



*Reviewed
7/2/14*

LEGEND
 --- PARCEL D-1 BOUNDARY
 --- SCOPE
 --- TRENCH SURVEY UNIT

Sheet reference number: 1 of 2	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH IN THIS SHEET, ADVISE SCALE ACCORDINGLY	RADIOLOGICAL REMEDIATION AND SUPPORT PARCEL D-1, PHASE II HUNTERS POINT NAVAL SHIPYARD SAN FRANCISCO, CALIFORNIA	AS-BUILT PLANS DECEMBER 2013	TRENCH EXCAVATION LAYOUT PLAN	 2730 Shadelands Drive Walnut Creek, CA. 94598
-----------------------------------	---	---	---------------------------------	--------------------------------------	---

07204.0004-1001-Inf

Page 2 of 2
2014

CONTRACT NO / TO NO: N62473-10-D-0808	PROJECT TITLE / LOCATION: Rad Remediation D-1, Phase II / HPNS	ITSI GILBANE PROJECT NO: 07204.0004
Survey No.: 07204.0004-1001-INF	Date: 7/24/2014	Location: HPNS
Chris Robbins	<i>Christopher J Robbins</i>	Ed Palser
Tech Printed Name	Signature	RSO Printed Name
Survey Type: Information		

Instrument(s)											
Model	Serial	Cal Due Date	Probe Model	Probe Serial	Cal Due Date	BKG α	BKG β	BKG γ	BKG μr/Hr	Eff. α	Eff. β
19	286213	7/27/2014	N/A						5.4	N/A	
N/A											
N/A											

Survey Description / Map /Photo

Survey Unit I

Trench #: 04-PDT-009

Soil Survey Units

D0022	N/A				
N/A					

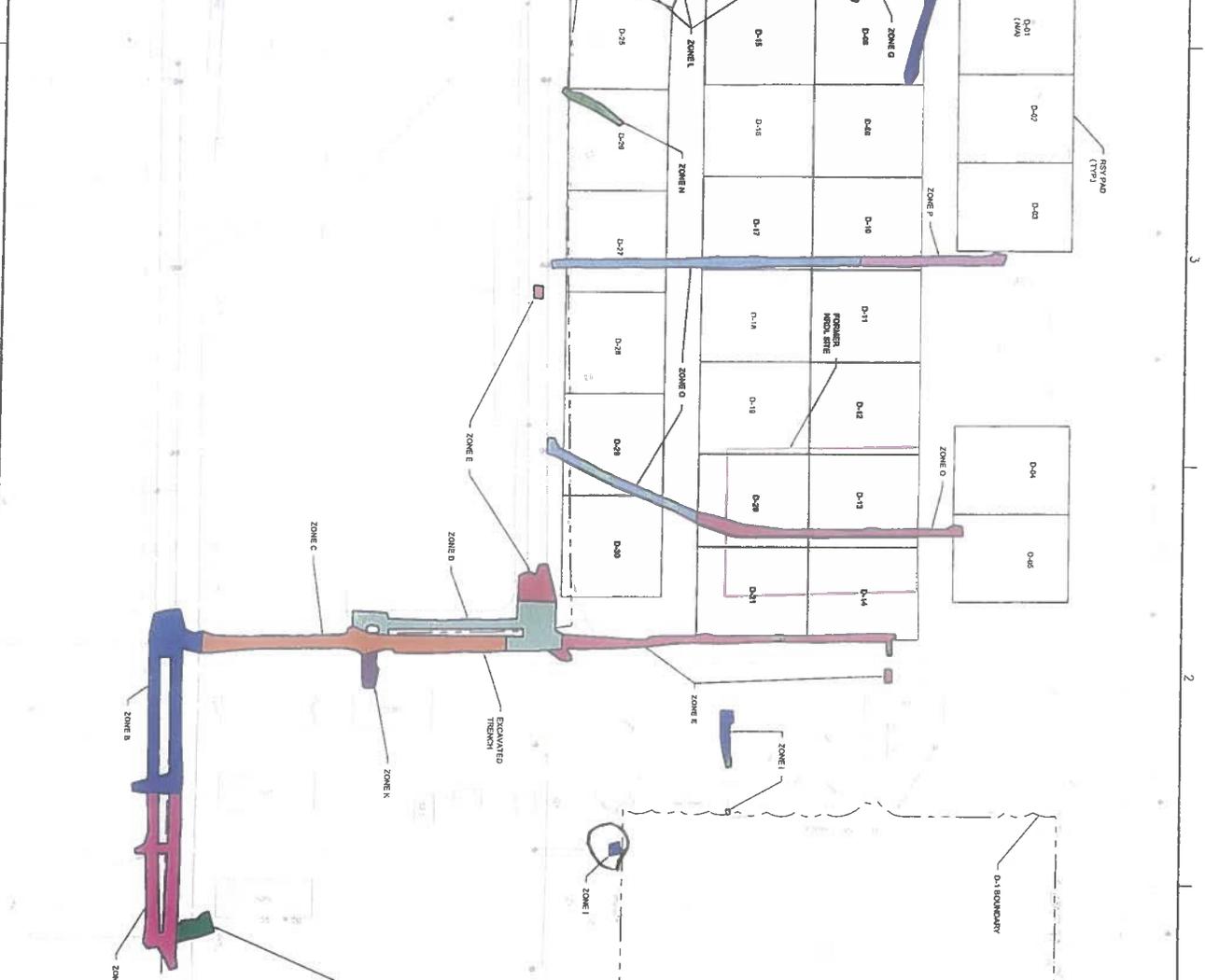
(D0001 to D0042)

From the Bottom of Trench

	0	ft to	1	μR/Hr	μR/Hr	μR/Hr	μR/Hr
Soil Compaction Lift From	0	ft to	1	6	6	6	5
Soil Compaction Lift From	1	ft to	2	5	5	6	6
Soil Compaction Lift From	2	ft to	3	N/A	N/A	N/A	N/A
Soil Compaction Lift From	3	ft to	4				
Soil Compaction Lift From	4	ft to	5				
Soil Compaction Lift From	5	ft to	6				
Soil Compaction Lift From	6	ft to	7				
Soil Compaction Lift From	7	ft to	8				
Soil Compaction Lift From	8	ft to	9				
Soil Compaction Lift From	9	ft to	10				
Soil Compaction Lift From	10	ft to	11				

Comments: Informational Survey During Backfill Operation. Dose rates taken at 1 meter above surface to support RESRAD model. Model 19 BKGD from taken from instrument set up sheet.

DATE: 01/20/14
 DRAWN BY: J. GIBANE
 CHECKED BY: J. GIBANE
 PROJECT: RADIATION REMEDIATION AND SUPPORT
 PARCEL D-1, PHASE II
 HUNTERS POINT NAVAL SHIPYARD
 SAN FRANCISCO, CALIFORNIA



LEGEND

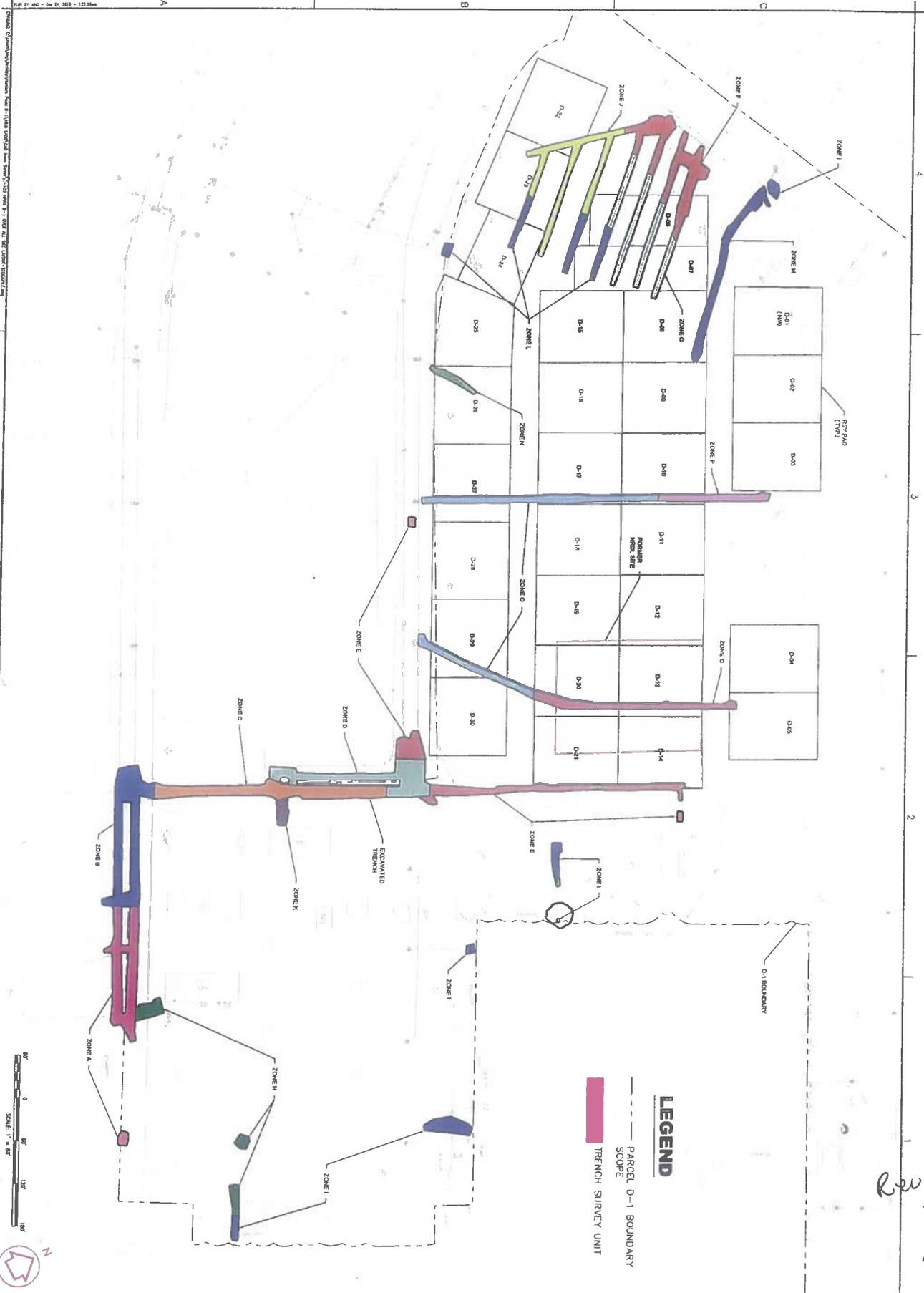
- PARCEL D-1 BOUNDARY
- SCOPE
- █ TRENCH SURVEY UNIT

*Revised
 7/31/14
 [Signature]*

Sheet reference number: 1 of 2	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALE ACCORDINGLY	RADIOLOGICAL REMEDIATION AND SUPPORT PARCEL D-1, PHASE II HUNTERS POINT NAVAL SHIPYARD SAN FRANCISCO, CALIFORNIA	AS-BUILT PLANS DECEMBER 2013	TRENCH EXCAVATION LAYOUT PLAN	 273D Shadelands Drive Walnut Creek, CA, 94598
-----------------------------------	--	--	---------------------------------	--------------------------------------	--

07204.0004-1001 - IRF

Page 2 of 2 in 112



LEGEND

- PARCEL D-1 BOUNDARY
- TRENCH SURVEY UNIT

Revised 7/21/14
[Signature]

Sheet reference number:
 1 of 2

RADIOLOGICAL REMEDIATION AND SUPPORT
 PARCEL D-1, PHASE II
 HUNTERS POINT NAVAL SHIPYARD
 SAN FRANCISCO, CALIFORNIA

AS-BUILT PLANS
 DECEMBER 2013

TRENCH EXCAVATION LAYOUT PLAN

TSI Gilbane
 2730 Shadelands Drive
 Walnut Creek, CA, 94598